

[illegible]

Fig. 1

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALSPEHCSPHHTALRQAI
LCWGELMTLATWVGNNLEDPASRDLVVNYVNTNMGLKIRQLLWFHISCLTFGRETVLEY
LVSFGVWIRTPPAYRPPNAPILSTLPETTVVRRRDRGRSPRRRTSPSPRRRSQSPRRR
SQSRESQC (SEQ ID NO:2)

Fig. 2

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted [redacted]

[illegible]

Fig. 3

Fig. 4

1. *What is the purpose of the study?*
 2. *What are the research questions or hypotheses?*
 3. *What is the study design?*
 4. *What is the sample size and how was it selected?*
 5. *What are the independent and dependent variables?*
 6. *What statistical methods were used?*
 7. *What are the results of the study?*
 8. *What are the conclusions and implications of the study?*
 9. *What are the limitations of the study?*
 10. *What are the strengths of the study?*

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCA
TATGGACATTGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGC
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GAAGCCTTAGAGTCTCCTGAGCATTGCTCACCTCACCACACCGCACTCAGGCAAGCCAT
TCTCTGCTGGGGGGAATTGATGACTCTAGCTACCTGGGTGGGTAATAATTTGGAAGATC
CAGCATCAAGGGATCTAGTAGTCAATTATGTTAATACTAACATGGGTTTTAAATTTAGG
CAACTATTGTGGTTTTCATATATCTTGCCTTACTTTTGGGAAGAGAGACTGTACTTGAATA
TTTGGTATCTTTCGGAGTGTGGATTTCGCACTCCTCCAGCCTATAGACCACCAAATGCCC
CTATCTTATCAACACTTCCGGAACTACTGTTGTTAGACGACGGGACCGAGGCAGGTCC
CCTAGAAGAAGAACTCCCTCGCCTCGCAGACGCAGATCTCAATCGCCGCGTCGCAGAAG
ATCTCAATCTCGGGAATCTCAATGTGTTAACGCCAAGACAATTGCGTACGACGAAGAGG
CCCGTCGCGGCCTCGAGCGGGGCTTGAACGCCCTCGCCGATGCGGTAAAGGTGACATTG
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CGCCAACCCGCTCGGTCTCAAACGCGGCATCGAAAAGGCCGTGGAGAAGGTACCGAGA
CCCTGCTCAAGGGCGCCAAGGAGGTGAGACCAAGGAGCAGATTGCGGCCACCGCAGCG
ATTTGCGCGGGTGACCAGTCCATCGGTGACCTGATCGCCGAGGCGATGGACAAGGTGGG
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CGCTGGAGAACGCCGACCTGTGCTGCTAGGCAAGGCCCGCAAGGTGCTGGTCACCAAG
GACGAGACCACCATCGTCGAGGGCGCCGGTGACACCGACGCCATCGCCGGACGAGTGGC
CCAGATCCGCCAGGAGATCGAGAACAGCGACTCCGACTACGACCGTGAGAAGCTGCAGG

Fig. 5 (page 1 of 2)

AGCGGCTGGCCAAGCTGGCCGGTGGTGTCTGCGGTGATCAAGGCCGGTGCCGCCACCGAG
GTCGAACTCAAGGAGCGCAAGCACCGCATCGAGGATGCGGTTTCGCAATGCCAAGGCCGC
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TGGACGAGCTGAAGCTCGAAGGCGACGAGGCGACCGGCGCCAACATCGTGAAGGTGGCG
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CGAGAAGGTGCGCAACCTGCCGGCTGGCCACGGACTGAACGCTCAGACCGGTGTCTACG
AGGATCTGCTCGCTGCCGGCGTTGCTGACCCGGTCAAGGTGACCCGTTTCGGCGCTGCAG
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GGAAAAGGAGAAGGCTTCCGTTCCCGGTGGCGGCGACATGGGTGGCATGGATTTCTGA
(SEQ ID NO:5)

Fig. 5 (page 2 of 2)

MGSSHHHHHHSSGLVPRGSHMDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYR
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PRRRTSPRRRRSQSPRRRRSQSRESQCVNAKTIAYDEEARRGLERGLNALADAVKVTL
GPKGRNVVLEKKWGAPTITNDGVSLAKEIELEDPYEKIGAELVKEVAKKTDDVAGDGT
TATVLAQALVREGLRNVAAGANPLGLKRGIEKAVEKVTETLLKGAKEVETKEQIAATAA
ISAGDQSIGDLIAEAMDKVGNVITVEESNTFGLQLELTEGMRFDKGYISGYFVTDPE
RQEAVLEDPYILLVSSKVSTVKDLLPLEKVIGAGKPLLI IAEDVEGEALSTLVVNKIR
GTFKSVAVKAPGFGDRRKAMLQDMAILTGGQVISEEVGLTLENADLSLLGKARKVVVTK
DETTIVEGAGDTDIAIGRVAQIRQEIENSDDYDREKLQERLAKLAGGVAVIKAGAATE
VELKERKHRIEDAVRNAKAAVEEGI VAGGGVTLLQAAPTLDDELKLEGDEATGANIVKVA
LEAPLKQIAFNNGLEPGVVAEKVRNLPAGHGLNAQTGVYEDLLAAGVADPVKVTRSA
LQNAASIAGLFLTTEAVVADKPEKEKASVPGGGDMGGMDF (SEQ ID NO:6)

Fig. 6

ATGGGCAGCAGCCATCATCATCATCACAGCAGCGGCCTGGTGCCGCGCGGCAGCCATATGGA
CATTGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGCCTTCTGACTTCT
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GAGCATTGCTCACCTCACCACACCGCACTCAGGCAAGCCATTCTCTGCTGGGGGGAATTGATGAC
TCTAGCTACCTGGGTGGGTAATAATTTGGAAGATCCAGCATCAAGGGATCTAGTAGTCAGTTATG
TTAATACTAACATGGGTTTAAATTTAGGCAACTATTGTGGTTTCATATATCTTGCCTTACTTTT
GGAAGAGAGACTGTACTTGAATATTTGGTATCTTTCGGAGTGTGGATTTCGCACTCCTCCAGCCTA
TAGACCACCAAATGCCCCCTATCTTATCAACACTTCCGGAACTACTGTTGTTAACGCCAAGACAA
TTGCGTACGACGAAGAGGGCCCGTCGCGGCCTCGAGCGGGCTTGAACGCCCTCGCCGATGCGGTA
AAGGTGACATTGGGCCCCAAGGGCCGCAACGTCGTCCTGGAAAAGAAGTGGGGTGCCCCACGAT
CACCAACGATGGTGTGTCCATCGCCAAGGAGATCGAGCTGGAGGATCCGTACGAGAAGATCGGCG
CCGAGCTGGTCAAAGAGGTAGCCAAGAAGACCGATGACGTCGCCGGTGACGGCACCACGACGGCC
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CGGTCTCAAACGCGGCATCGAAAAGGCCGTGGAGAAGGTCACCGAGACCCTGCTCAAGGGCGCCA
AGGAGGTCGAGACCAAGGAGCAGATTGCGGCCACCGCAGCGATTTGCGCGGGTGACCAGTCCATC
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CAACACCTTTGGGCTGCAGCTCGAGCTCACCGAGGGTATGCGGTTGACAAGGGCTACATCTCGG
GGTACTTCGTGACCGACCCGGAGCGTCAGGAGGCGGTCTTGAGGACCCCTACATCTGCTGGTC
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GCCGCTGCTGATCATCGCCGAGGACGTGAGGGCGAGGCGCTGTCCACCCTGGTCTCAACAAGA
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CTGCAGGATATGGCCATTCTCACCGGTGGTCAGGTGATCAGCGAAGAGGTCGGCCTGACGCTGGA
GAACGCCGACCTGTGCTGCTAGGCAAGGCCCCGCAAGGTCGTGGTCACCAAGGACGAGACCACCA
TCGTGAGGGCGCCGGTGACACCGACGCCATCGCCGACGAGTGGCCAGATCCGCCAGGAGATC
GAGAACAGCGACTCCGACTACGACCGTGAGAAGCTGCAGGAGCGGCTGGCCAAGCTGGCCGGTGG
TGTCGCGGTGATCAAGGCCGGTGCCGCCACCGAGGTCGAACTCAAGGAGCGCAAGCACCGCATCG
AGGATGCGGTTTCGCAATGCCAAGGCCGCCGTGAGGAGGGCATCGTCGCCGGTGGGGGTGTGACG
CTGTTGCAAGCGGCCCCGACCCTGGACGAGCTGAAGCTCGAAGGCGACGAGGCGACCGGCGCCAA
CATCGTGAAGGTGGCGCTGGAGGCCCCGCTGAAGCAGATCGCCTTCAACTCCGGGCTGGAGCCGG
GCGTGGTGGCCGAGAAGGTGCGCAACCTGCCGGCT

Fig. 7 (page 1 of 2)

GGCCACGGACTGAACGCTCAGACCGGTGTCTACGAGGATCTGCTCGCTGCCGGCGTTGCTGACCC
GGTCAAGGTGACCCGTTTCGGCGCTGCAGAATGCGGCGTCCATCGCGGGGCTGTTCCCTGACCACCG
AGGCCGTCGTTGCCGACAAGCCGAAAAAGGAGAAGGCTTCCGTTCCCGGTGGCGGCGACATGGGT
GGCATGGATTTCTGA (SEQ ID NO:7)

Fig. 7 (page 2 of 2)

Sequence

MGSSHHHHHSSGLVPRGSHMDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYR
EALESPEHCSPHHTALRQAILCWGELMTLATWVGNNLEDPASRDLVVS YVNTNMGLKFR
QLLWFHISCLTFGRET VLEYLVSFGVWIRTPPAYRPPNAPILSTLPETTVVNAKTIAYD
EEARRGLERGLNALADAVKVT LGPKGRNVVLEKKWGAPTITNDGV SIAKEIELEDPYEK
IGAELVKEVAKKTDDVAGDGT TATVLAQALVREGLRNVAAGANPLGLKRGIEKAVEKV
TETLLKGAKEVETKEQIAATAA ISAGDQSIGDLIAEAMDKVGNEGVITVEESNTFGLQL
ELTEGMRFDKGYISGYFVTDPERQEAVLEDPYILLVSSKVSTVKDLLPLEKVI GAGKP
LLIIAEDVEGEALSTLVVNKIRGTFKSVAVKAPGFGDRRKAMLQDMAILTGGQVISEEV
GLTLENADLSLLGKARKVVVT KDETTIVEGAGDTDAIAGRVAQIRQEIENS DSDYDREK
LQERLAKLAGGVAVIKAGAATEVELKERKHRIEDAVRNAKAAVEEGI VAGGGVTLLQAA
PTLDELKLEGDEATGANIVKVALEAPLKQIAFN SGLPGVVAEKVRNLPAGHGLNAQTG
VYEDLLAAGVADPVKVTR SALQNAASIAGLFLTTEAVVADKPEKEKASVP GGGDMGGMD
F

SEQ ID NO:8)

Fig. 8

20250604 10:00:00

ATGGACATTGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGCCTTCTGA
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TTATGTTAATACTAACATGGGTTTTAAATTTAGGCAACTATTGTGGTTTCATATATCTTGCCTTA
CTTTTGAAGAGAGACTGTACTTGAATATTTGGTATCTTTCGGAGTGTGGATTGCACTCCTCCA
GCCTATAGACCACCAAATGCCCCTATCTTATCAACACTTCCGGAACTACTGTTGTTAGACGAGC
CAAGACAATTGCGTACGACGAAGAGGCCCGTCGCGGCCTCGAGCGGGGCTTGAACGCCCTCGCCG
ATGCGGTAAAGGTGACATTGGGCCCCAAGGGCCGCAACGTCGTCTTGAAAAGAAGTGGGGTGCC
CCCACGATCACCAACGATGGTGTGTCCATCGCCAAGGAGATCGAGCTGGAGGATCCGTACGAGAA
GATCGGCGCCGAGCTGGTCAAAGAGGTAGCCAAGAAGACCGATGACGTCGCCGGTGACGGCACCA
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GGGCGCCAAGGAGGTGAGACCAAGGAGCAGATTGCGGCCACCGCAGCGATTTGCGCGGGTGACC
AGTCCATCGGTGACCTGATCGCCGAGGCGATGGACAAGGTGGGCAACGAGGGCGTCATCACCGTC
GAGGAGTCCAACACCTTTGGGCTGCAGCTCGAGCTCACCGAGGGTATGCGGTTGACAAGGGCTA
CATCTCGGGGTACTTCGTGACCGACCCGGAGCGTCAGGAGGCGGTCTTGAGGACCCCTACATCC
TGCTGGTCAGCTCCAAGGTGTCCACTGTCAAGGATCTGCTGCCGCTGCTCGAGAAGGTCATCGGA
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CAACAAGATCCGCGGCACCTTCAAGTCGGTGGCGGTCAAGGCTCCCGGCTTCGGCGACCGCCGCA
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GACCACCATCGTCGAGGGCGCCGGTGACACCGACGCCATCGCCGGACGAGTGGCCCAGATCCGCC
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GCCGGTGGTGTGCGGGTGATCAAGGCCGGTGCCGCCACCGAGGTGGAATCAAGGAGCGCAAGCA
CCGCATCGAGGATGCGGTTGCAATGCCAAGGCCCGCCGTGAGGAGGGCATCGTCGCCGGTGGGG
GTGTGACGCTGTTGCAAGCGGCCCCGACCCTGGACGAGCTGAAGCTCGAAGGCGACGAGGCGACC
GGCGCCAACATCGTGAAGGTGGCGCTGGAGGCCCGCTGAAGCAGATCGCCTTCAACTCCGGGCT
GGAGCCGGGCGTGGTGGCCGAGAAGGTGCGCAACCTGCCGGCTGGCCACGGACTGAACGCTCAGA
CCGGTGTCTACGAGGATCTGCTCGCTGCCGGCGTTGCTGACCCGGTCAAGGTGACCCGTTCCGGC
CTGCAGAATGCGGCGTCCATCGCGGGGCTGTTCTTGACCACCGAGGCCGTGTTGCCGACAAGCC
GGAAAAGGAGAAGGCTTCCGTTCCCGGTGGCGGCGACATGGGTGGCATGGATTTCTGA SEQID

NO:9)

Fig. 9

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALSPEHCSPHHTALRQAI
LCWGELMTLATWVGNNLEDPASRDLVVNYVNTNMGLKFRQLLWFHISCLTFGRETVLEY
LVSFGVWIRTPPAYRPPNAPILSTLPETTVVRRAKTIAYDEEARRGLERGLNALADAVK
VTLGPKGRNVVLEKKWGAPTITNDGVSIAKEIELEDPYEKIGAELVKEVAKKTDDVAGD
GTTTATVLAQALVREGLRNVAAGANPLGLKRGIEKAVEKVTETLLKGAKEVETKEQIAA
TAAISAGDQSIGDLIAEAMDKVGNVITVEESNTFGLQLELTEGMRFDKGYISGYFVT
DPERQEAVLEDPYILLVSSKVSTVKDLLPLEKVI GAGKPLLI IAEDVEGEALSTLVVN
KIRGTFKSVAVKAPGFGDRRKAMLQDMAILTGGQVISEEVGLTLENADLSLLGKARKVV
VTKDETTIVEGAGD TDAIAGRVAQIRQEIENS DSDYDREKLQERLAKLAGGVAVIKAGA
ATEVELKERKHRIEDAVRNAKAAVEEGIVAGGGVTLLQAAPTLDLDELKLEGDEATGANIV
KVALEAPLKQIAFN SGLEPGVVAEKVRNLPAGHGLNAQTGVYEDLLAAGVADPVKVTRS
ALQNAASIAGLFLTTEAVVADKPEKEKASVPGGGDMGGMDF (SEQ ID NO:10)

Fig. 10

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ATGGACATTGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGCCTTCTGA
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GTCGCAGAAGATCTCAATCTCGGGAATCTCAATGTGCCAAGACAATTGCGTACGACGAAGAGGCC
CGTCGCGGCCTCGAGCGGGGCTTGAACGCCCTCGCCGATGCGGTAAAGGTGACATTGGGCCCCAA
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TCGCCAAGGAGATCGAGCTGGAGGATCCGTACGAGAAGATCGGCGCCGAGCTGGTCAAAGAGGTA
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AGGCCCCGCTGAAGCAGATCGCCTTCAACTCCGGGCTGGAGCCGGGCGTGGTGGCCGAGAAGGTG
CGCAACCTGCCGGCTGGCCACGGACTGAAC

Fig. 11 (page 1 of 2)

(SEQ ID NO:11)

Fig. 11 (page 2 of 2)

1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382</
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MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALSPEHCSPHHTALRQAI
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PLGLKRGIEKAVEKVTETLLKGAKETKEQIAATAAISAGDQSIGDLIAEAMDKVGNE
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DLLPLLEKVIAGKPLLI AEDVEGEALSTLVVNKIRGTFKSVAVKAPGFGDRRKAMLQ
DMAILTGGQVISEEVGLTLENADLSLLGKARKVVVTKDETTIVEGAGDTDAIAGRVAQI
RQEIENSDDYDREKLQERLAKLAGGVAVIKAGAATEVELKERKHRIEDAVRNAKAAVE
EGIVAGGGVTLLQAAPTLDELKLEGDEATGANIVKVALEAPLKQIAFNSGLEPGVVAEK
VRNLPAGHGLNAQTGVYEDLLAAGVADPVKVTRSAQNAAASIAGLFLTTEAVVADKPEK
EKASVPGGGDMGGMDF (SEQ ID NO:12)

Fig. 12

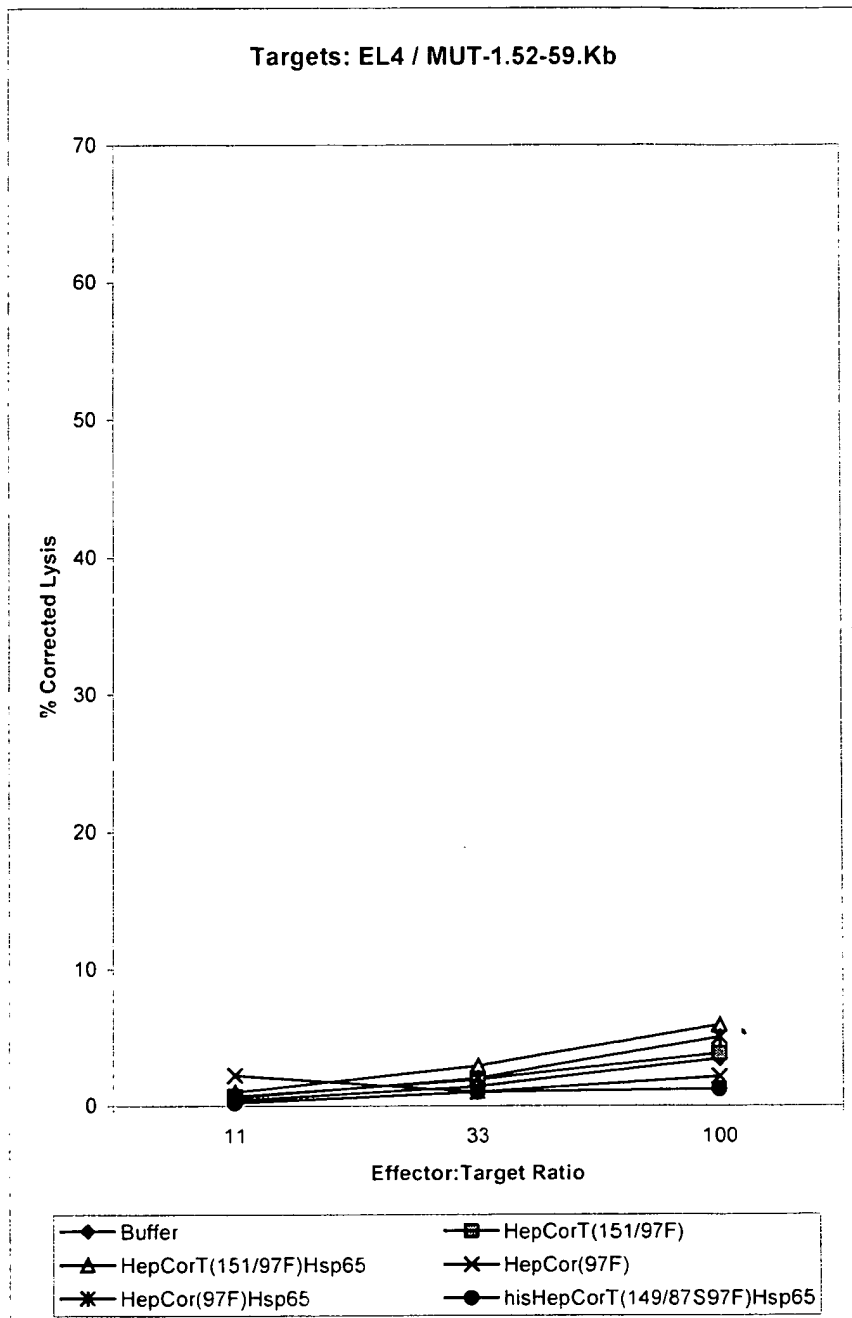


Fig. 13

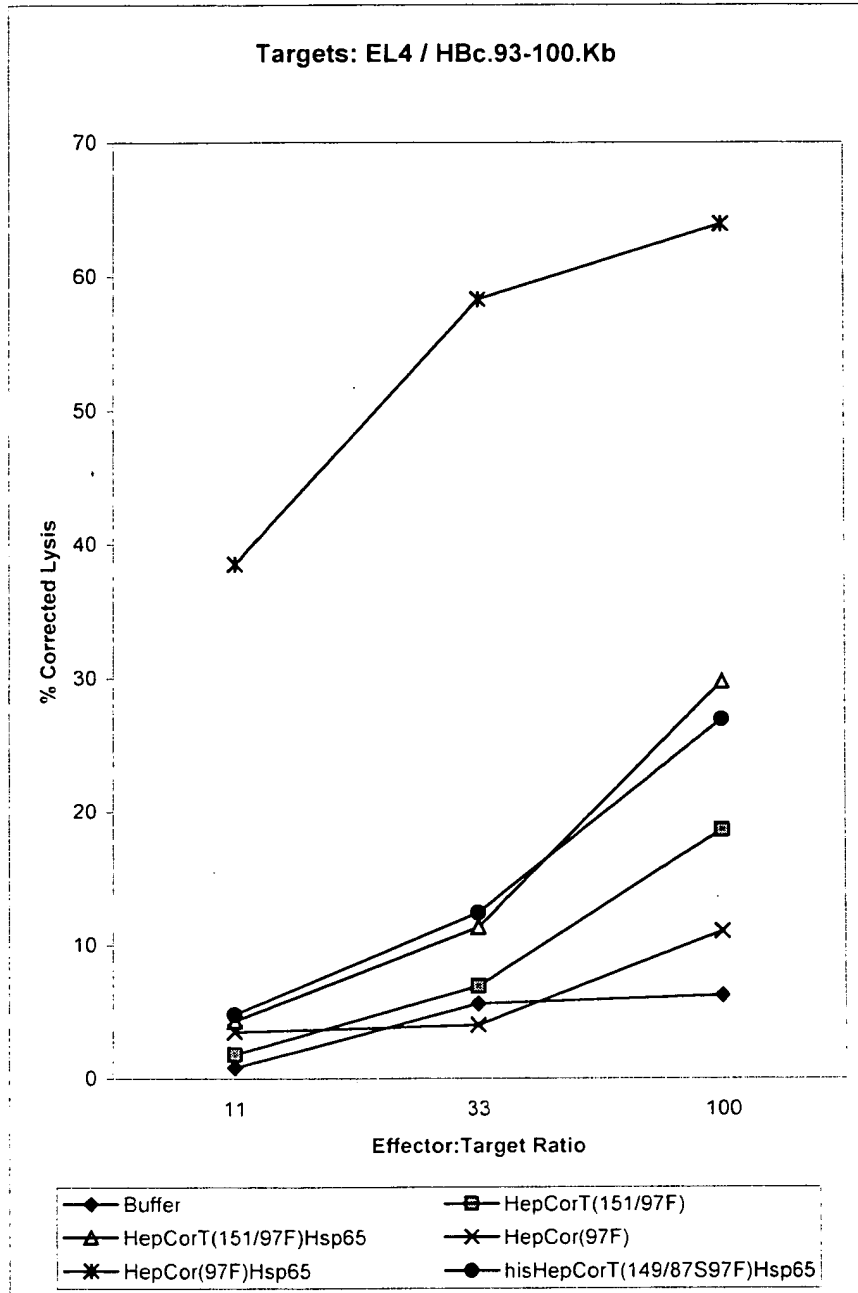


Fig. 14

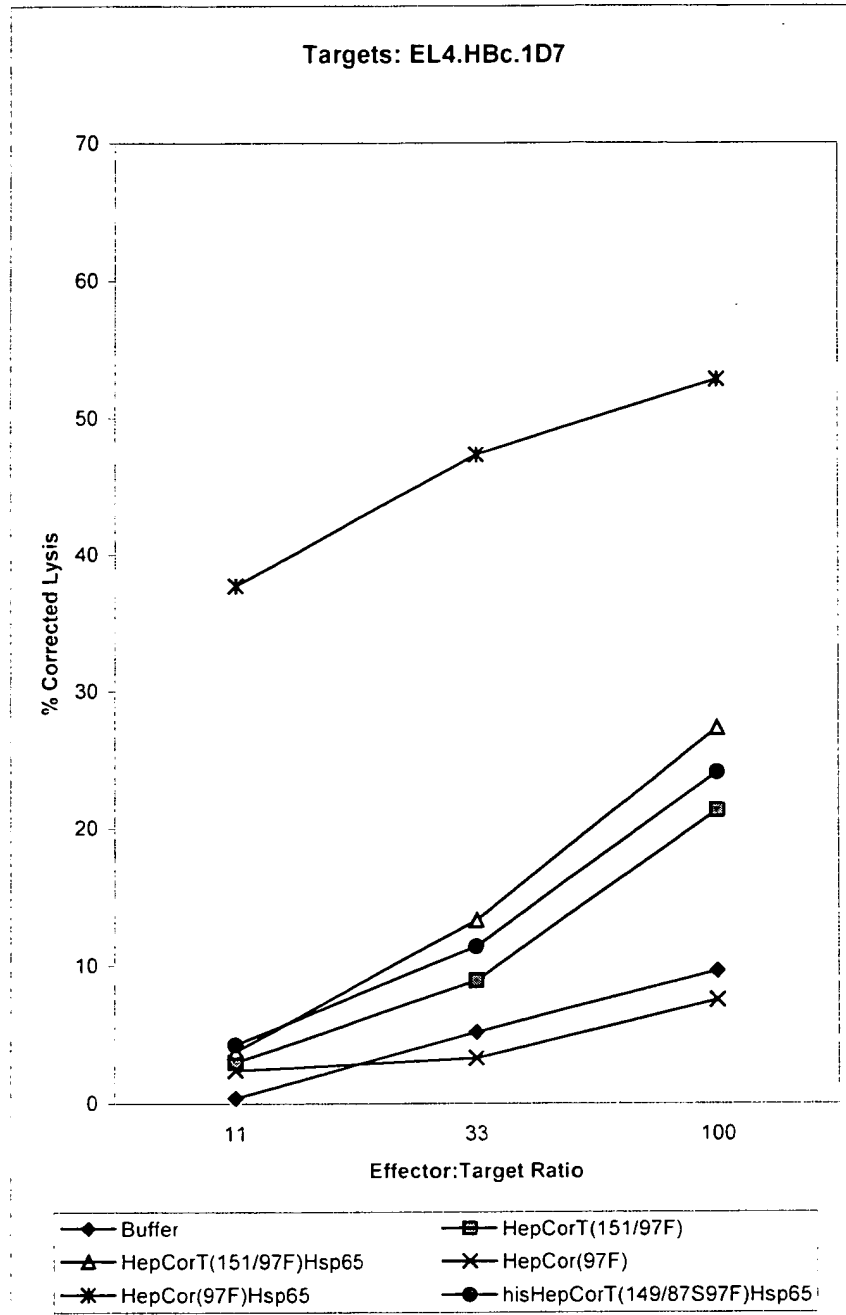


Fig. 15

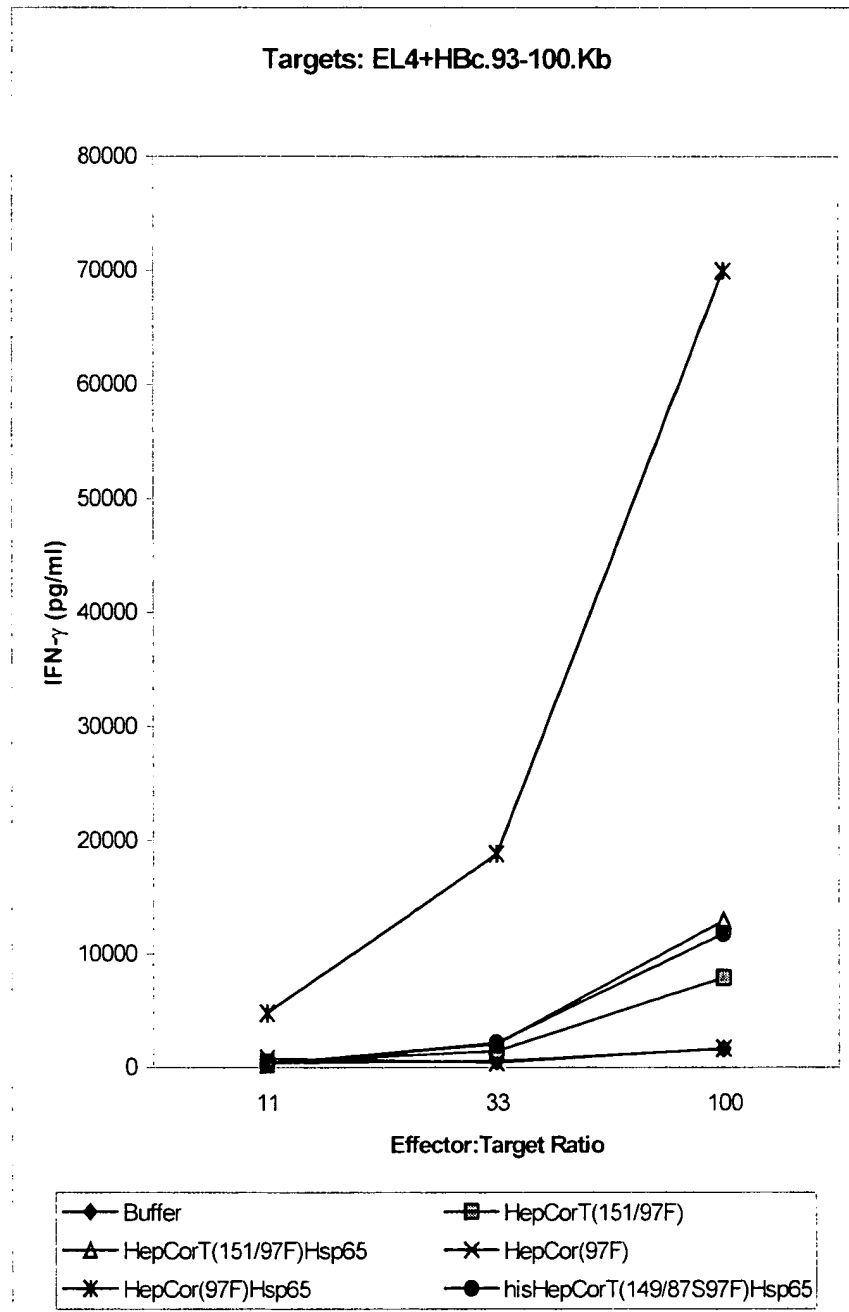


Fig. 16

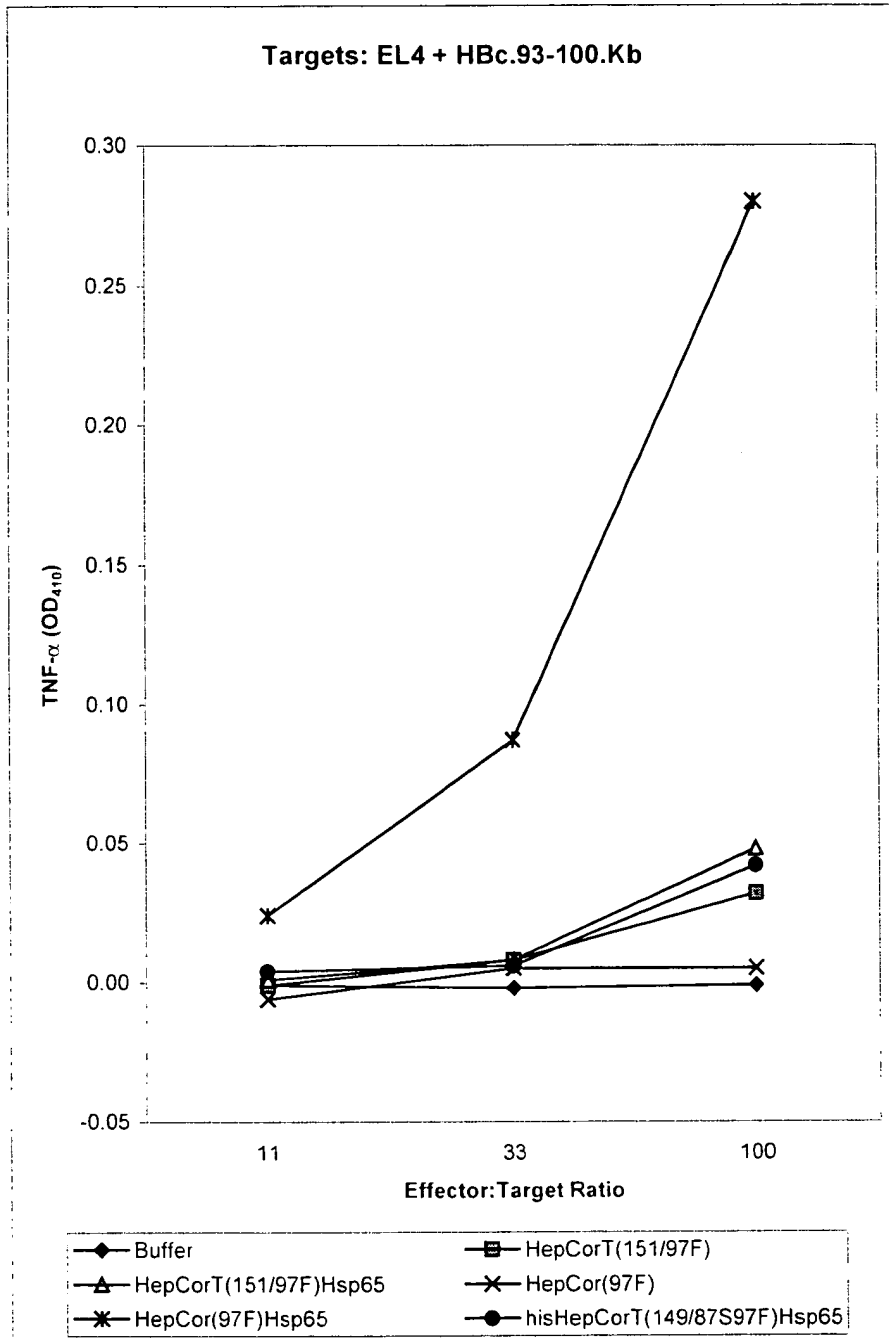


Fig. 17